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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	0	(geo$1raster) and table and (spatial with index) and (spatial with extent) and block and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 12:40
L3	31	(geo$8 with type) and (raster with spatial) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 12:43
L4	0	(geo$8 with name$2 with type) and (raster with spatial) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 12:44
L5	5	(geo$8 with (data adj type)) and (raster with spatial) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 12:44
S1	2	("20050055376").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/06 18:31
S2	0	("geographicadjrasteradjdata").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/30 14:53
S3	2	geographic adj raster adj data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 08:48
S4	2	georaster	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/30 14:53
S5	1178	geographic and raster and data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 08:49

EAST Search History

S6	2	geographic adj raster and data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 08:48
S7	23	geographic with (raster adj data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 08:48
S8	156	geographic same raster same data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 08:49
S9	116	(geographic same raster same data) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:27
S10	72	((geo$8 near2 raster) same data) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 08:50
S11	61	(geographic same raster same data) and spatial and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:28
S12	4	(geographic same raster same data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:31
S13	0	(geo$8raster same data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:30
S14	0	(geo$9raster same data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:31
S15	190	(geographic and raster and data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 10:20

S16	0	(geo$9raster with table with data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:35
S17	0	(geo$9raster with table) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:35
S18	0	(table with (geographic and raster and data)) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:35
S19	33	(geographic and raster and data) and table and index and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:36
S20	32	(geographic and raster and data) and table and index and (spatial with extent) and block and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:37
S21	7	(geographic and raster and data) and table and (spatial with index) and (spatial with extent) and block and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 12:39
S22	4	707/104.1.ccls. and (geographic and raster and data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 10:20
S23	4	707/102.ccls. and (geographic and raster and data) and (spatial with extent) and @ad < "20030905"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 10:20
S24	2	("20050055376").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 10:21
S25	0	("geographicadjrasteradjdata").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/12 10:21

S26	2	geographic adj raster adj data	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 10:21
S27	2	georaster	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 10:21

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Loomer, S.A.;
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Voisard, A.; David, B.;
Knowledge and Data Engineering, IEEE Transactions on
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1 Sequoia 2000 metadata schema for satellite images
Jean T. Anderson, Michael Stonebraker
December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(674.07 KB)   Additional Information: full citation, abstract, citings, index terms

Sequoia 2000 schema development is based on emerging geospatial standards to accelerate development and facilitate data exchange. This paper focuses on the metadata schema for digital satellite images. We examine how satellite metadata are defined, used, and maintained. We discuss the geospatial standards we are using, and describe a SQL prototype that is based on the Spatial Archive and Interchange Format (SAIF) standard and implemented in the Illustra object-relational database.

2 Data integration and data mining: Quality-driven approximate methods for integrating GIS data
Ramaswamy Hariharan, Michal Shmueli-Scheuer, Chen Li, Sharad Mehrotra
November 2005 **Proceedings of the 13th annual ACM international workshop on Geographic information systems GIS '05**
Publisher: ACM Press
Full text available: 📄 pdf(351.71 KB)   Additional Information: full citation, abstract, references, index terms

GIS data distributed in local, state, federal, and private data clearinghouses are being made accessible through the efforts of organizations such as Federal Geographic Data Committee (FGDC) and GeoData.gov. Many database applications, such as disaster management, transportation, and national infrastructure protection, need to access GIS information from such various data sources. In this paper we study how to answer keyword-based spatial queries approximately using information from heterogeneou ...

Keywords: GIS data integration, approximate methods, heterogeneous data sources

3 An open abstract-object storage system
Stephen Blott, Lukas Relly, Hans-Jörg Schek
June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.15 MB)   Additional Information: full citation, abstract, references, citings, index terms

Database systems must become more open to retain their relevance as a technology of choice and necessity. Openness implies not only databases exporting their data, but also exporting their services. This is as true in classical application areas as in non-classical (GIS, multimedia, design, etc).This paper addresses the problem of exporting storage-management services of indexing, replication and basic query processing. We describe an abstract-object storage model which provides the basic mechan ...

4 A web query system for heterogeneous government data
Nancy Wiegand, Naijun Zhou, Isabel F. Cruz, William Sunna
May 2004 **Proceedings of the 2004 annual national conference on Digital government research dg.o '04**
Publisher: Digital Government Research Center
Full text available: pdf(97.16 KB)   Additional Information: full citation, abstract, references

This paper describes a Web-based query system for semantically heterogeneous government-produced data. Geospatial Web-based information systems and portals are currently being developed by various levels of government along with the GIS community. Typically, these sites provide data discovery and download capabilities but do not include the ability to pose DBMS type queries.One of the main problems in querying distributed government data sources is the difference in semantics used by various jur ...

5 Building a scaleable geo-spatial DBMS: technology, implementation, and evaluation
Jignesh Patel, JieBing Yu, Navin Kabra, Kristin Tufte, Biswadeep Nag, Josef Burger, Nancy Hall, Karthikeyan Ramasamy, Roger Lueder, Curt Ellmann, Jim Kupsch, Shelly Guo, Johan Larson, David De Witt, Jeffrey Naughton
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press
Full text available: pdf(1.58 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a number of new techniques for parallelizing geo-spatial database systems and discusses their implementation in the Paradise object-relational database system. The effectiveness of these techniques is demonstrated using a variety of complex geo-spatial queries over a 120 GB global geo-spatial data set.

6 OGDI: toward interoperability among geospatial databases
Gilles Clément, Christian Larouche, Denis Gouin, Paul Morin, Henry Kucera
September 1997 **ACM SIGMOD Record**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(465.15 KB)   Additional Information: full citation, abstract, index terms

The growth of the geomatics industry is stunted by the difficulty of obtaining and transforming suitable spatial data. This paper describes a remedy: the Open Geospatial Datastore Interface (OGDI), which permits application software to access a variety of spatial data products. The discussion compares the OGDI approach to other standards efforts and describes the characteristics and use of OGDI, which is in the public domain.

7 Toward improved geographic information services within a digital government: report of the NSF digital government initiative geographic information systems workshop
Louis Hecht, Barbara Kucera
May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**
Publisher: Digital Government Research Center
Full text available: pdf(531.35 KB)   Additional Information: full citation, abstract

This material is based upon work supported in part by the National Science Foundation

8 Geographic Data Modeling: Requirements and research issues in geographic data modeling

Anders Friis-Christensen, Nectaria Tryfona, Christian S. Jensen

November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: ⬛ pdf(1.18 MB)   Additional Information: full citation, abstract, references, index terms

It is well-documented in the literature that geographic data have special characteristics that make the use of extensions to standard modeling languages and techniques, such as the Unified Modeling Language, attractive. Based on a real-world application from the Danish National Survey and Cadastre, this paper presents requirements to geographic data modeling notations. Existing notations are then evaluated against the requirements, and a case study is carried out. The result is an identification ...

Keywords: GIS, conceptual data modeling, geographic data, requirements analysis

9 Access control technology: Access control, confidentiality and privacy for video surveillance databases

Bhavani Thuraisingham, Gal Lavee, Elisa Bertino, Jianping Fan, Latifur Khan

June 2006 **Proceedings of the eleventh ACM symposium on Access control models and technologies SACMAT '06**

Publisher: ACM Press

Full text available: ⬛ pdf(355.00 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we have addressed confidentiality and privacy for video surveillance databases. First we discussed our overall approach for suspicious event detection. Next we discussed an access control model and accedes control algorithms for confidentiality. Finally we discuss privacy preserving video surveillance. Our goal is build a comprehensive system that can detect suspicious events, ensure confidentiality as well as privacy.

Keywords: access control, confidentiality, privacy, video and surveillance

10 Managing images: Geographic location tags on digital images

Kentaro Toyama, Ron Logan, Asta Roseway

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: ⬛ pdf(1.97 MB)   Additional Information: full citation, abstract, references, citings, index terms

We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and critically, location stamp. The location where a photo was shot is important because it says much about its semantic content, while being relatively easy to acquire, index, and search.The process of building, browsing, and writing applications for ...

Keywords: GIS, digital photography, geographic interfaces, image databases

11 A multi-tier framework for accessing distributed, heterogeneous spatial data in a federation based EIS

Claus Hofmann

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: 📄 pdf(271.85 KB)   Additional Information: full citation, references, index terms

Keywords: 3-tier GIS design, GIS integration, interoperability

12 GML, Interoperability, and Standards: WMS and GML based interoperable web mapping system

Shashi Shekhar, Ranga Raju Vatsavai, Namita Sahay, Thomas E. Burk, Stephen Lime

November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: 📄 pdf(1.65 MB)   Additional Information: full citation, abstract, citings, index terms

Recently the World Wide Web has become a popular vehicle for information distributation and web based geographic information system (GIS) are rapidly evolving and adapting to these new environments. The main hindrance for building true interoperable distributed geographic information systems is the lack of any standard exchange mechanism between the diverse GISes connected over the web. Recent efforts by the OpenGIS Consortium have resulted in several specifications to alleviate these problems. ...

Keywords: DOM, DTD, GIS, GML, SAX, WMS, XML Schema, XSLT

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